

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP)
OFFICE OF AIR MANAGEMENT**

and

**Indianapolis Environmental Resources Management
Division**

**Hanson Aggregates, Inc.
4506 South Harding Street
Indianapolis, Indiana 46217**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T097-12083-05160	
Issued by: Mona A. Salem, Chief Operating Officer Department of Public Works, City of Indianapolis	Issuance Date:

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Emergency/Deviation Form

Hanson Aggregates, Inc.
Indianapolis, Indiana
Permit Reviewer: Kevin Leone

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Quarterly Report Form
Quarterly Compliance Monitoring Report Form

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) and the Environmental Resources Management Division (ERMD). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates an asphalt plant with supporting equipment.

Authorized individual: Brian Easley
Source Address: 4506 South Harding Street, Indianapolis, Indiana 46217
Mailing Address: 4506 South Harding Street, Indianapolis, Indiana 46217
Phone Number: (317) 784-9714
SIC Code: 2951
County Status: Attainment for all criteria pollutants
Source Location Status: Federal Enforceable State Operating Permit (FESOP)
Issued under 326 IAC 2-8-18 as a General Asphalt Facility Permit
Minor Source, under PSD

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (1) one (1) stationary hot asphalt drum mixer and aggregate dryer, unit ID: 02 (01), with a maximum capacity of 350 tons per hour, equipped with one (1) natural gas-fired burner, controlled by one (1) baghouse for particulate matter (PM) emissions, and exhausting through one (1) stack (Stack ID: 01), installed in 1996.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (1) Aggregate Stock Piles and Handling, identified as 01(01), using no equipment as control, and not exhausting to a stack.
- (2) Receiving Bins/Screening/Conveying, identified as 01(04), using no equipment as control, and not exhausting to a stack.
- (3) Product Storage Bins, identified as 02(02), using no equipment as control, and not exhausting to a stack.
- (4) Truck Loadout, identified as 02(03), using no equipment as control, and not exhausting to a stack.
- (5) Asphalt Tank and Heater, identified as 02(04), using no equipment as control, and not exhausting to a stack.
- (6) Haulroad and Yard Area, identified as 01(05), using no equipment as control, and not exhausting to a stack.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Conditions

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, and ERMD shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-8-6]

- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and ERMD.
- (b) All terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by ERMD.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall furnish to IDEM, OAM, and ERMD within a reasonable time, any

information that IDEM, OAM, and ERMD may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.

- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, and ERMD copies of records required to be kept by this permit. The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, then the Permittee must furnish record directly to the U. S. EPA. The Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAM and ERMD may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:
- (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, and ERMD on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAM, and ERMD may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repair emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management

Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

The PMP and the PMP extension notification do not require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or to emit.
- (c) A copy of the PMP’s shall be submitted to IDEM, OAM, and ERMD upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAM, and ERMD. IDEM, OAM, and ERMD may require the Permittee to revise its PMPs whenever lack of maintenance causes or contributes to any violation. The PMP does not require the
- potential
- proper certification
- by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, and ERMD within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Management, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

ERMD

Telephone No.: 317-327-2234 (ask for Data Compliance)
Facsimile No.: 317-327-2274

Failure to notify IDEM, OAM, and ERMD by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) IDEM, OAM, and ERMD may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAM, and ERMD by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
 - (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct

the emergency and minimize emissions.

- (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

- (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
- (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
- (2) An emergency as defined in 326 IAC 2-7-1(12); or
- (3) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.

The appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-1.1-1(1).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

-
- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).
 - (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM and ERMD determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
 - (c) Proceedings by IDEM, OAM, and ERMD to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
 - (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, and ERMD at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, and ERMD may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM and ERMD and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, and ERMD on or before the date it is due. [326 IAC 2-5-3]
- (2) If IDEM, OAM and ERMD upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAM and ERMD takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAM, and ERMD any additional information identified as needed to process the application.
- B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11]**
- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- and
- Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221
- Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1) only if a certification is required by the terms of the applicable rule.
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-8-11(b)(2)]**
- Notwithstanding 326 IAC 2-8-11(b)(1)(D)(i) and 326 IAC 2-8-11(c)(1), minor permit modification procedures may be used for modifications of this permit involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches to the extent that such minor permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated by U.S. EPA.
- B.20 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-8-15(b)]**
- The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional condition:

For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

B.21 Operational Flexibility [326 IAC 2-8-15]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAM, and ERMD in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

(b) For each such Section 502(b)(10) of the Clean Air Act change (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

- (1) A brief description of the change within the source;

- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) **Emission Trades** [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) **Alternative Operating Scenarios** [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAM or U.S. EPA is required.

B.22 Construction Permit Requirement [326 IAC 2]

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.23 Inspection and Entry [326 IAC 2-8-5(a)(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAM, and ERMD U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-8-5(a)(4)]
 - (1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM, and ERMD or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM, and ERMD nor an authorized representative, may disclose the information unless and until IDEM, OAM, and ERMD makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that

the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]

- (2) The Permittee, and IDEM, OAM, and ERMD acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]

B.24 Transfer of Ownership or Operation [326 IAC 2-1-6][326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

The application which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

B.25 Annual Fee Payment [326 IAC 2-8-4(6)][326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAM, and ERMD within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 Prevention of Significant Deterioration (PSD).
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.

(c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period, as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on October 29, 1997. The plan does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). The plan consists of:

- (a) the dust from the roads be swept or treated with water or dust suppressant on an as needed basis; and
- (b) the dust from the handling and storage of all materials be treated with water or dust suppressant on an as needed basis.

C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit vented to the control equipment is in operation.

C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Asbestos
2700 South Belmont Avenue
Indianapolis, Indiana 46221

The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.10 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAM and ERMD within forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAM, and ERMD, if the source submits to IDEM, OAM, and ERMD a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.11 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.12 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

All monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

in writing, prior to the end of the initial ninety (90) day compliance schedule with full justification of the reasons for inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-1.1-1(1).

Compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.13 Maintenance of Emission Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.14 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.15 Pressure Gauge Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present in a process in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
- (b) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
- (c) A verification to IDEM, OAM, and ERMD that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-8-4][326 IAC 2-8-5]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. The compliance monitoring plan can be either an entirely new document, consist in whole information contained in other documents, or consist of a combination of new information and information contained in other documents. If the compliance monitoring plan incorporates by reference information contained in other documents, the Permittee shall identify as part of the compliance monitoring plan the documents in which the information is found. The elements of the compliance monitoring plan are:
 - (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM and ERMD upon request and shall be subject to review and approval by IDEM, OAM, and ERMD. The CRP shall be prepared within ninety (90) days after issuance of this permit

by the Permittee and maintained on site, and is comprised of :

- (A) Response steps that may be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking reasonable response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) Upon investigation of a compliance monitoring excursion, the Permittee is excused from taking further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]
[326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, and ERMD within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM and ERMD that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM and ERMD may extend the retesting deadline.
- (c) IDEM, OAM reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.19 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6. This annual statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year). The annual statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

by The emission statement does require the certification by the “authorized individual” as defined 326 IAC 2-1.1-1(1).

- (b) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.

C.20 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or ERMD makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or ERMD within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
- (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:

- (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.21 General Reporting Requirements [326 IAC 2-8-4(3)(C)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, and ERMD on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.22 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

FACILITY OPERATION CONDITIONS

SECTION D.1 General Operating Permit Requirements

Facility Description [326 IAC 2-8-4(10)]

One (1) stationary hot asphalt drum mixer and aggregate dryer, unit ID 02 (01), with a maximum capacity of 350 tons per hour, equipped with one (1) natural gas-fired burner, controlled by one (1) baghouse for particulate matter (PM) emissions, and exhausting through one (1) stack (Stack ID: 01)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Particulate Matter (PM) [326 IAC 12] [326 IAC 6-1-2(a)][40 CFR 60.990, Subpart I]

Pursuant to 326 IAC 6-1-2(a) and the New Source Performance Standards, 326 IAC 12 (40 CFR 60.90 to 60.93, Subpart I):

- (a) Particulate matter emissions from the asphalt plant shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf). This emission limitation is equivalent to 10.28 pounds per hour. Compliance with 326 IAC 6-1-2(a) will satisfy 326 IAC 12 and 40 CFR 60.90 to 60.93, Subpart I, and
- (b) The visible emissions from the plant shall not exceed 20 percent opacity.

This emission limitation is equivalent to 10.28 pounds per hour based on an exhaust rate of 56,000 acfm and an exhaust gas temperature and moisture content of 230 degrees Fahrenheit 30 percent respectively.

D.1.2 Particulate Matter 10 Microns (PM-10) [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, particulate matter 10 microns emissions from the aggregate mixing and drying operation shall not exceed 100 tons per year, or (or 5.54 lb/hr, which relates to the actual outlet grain loading) including both filterable and condensable fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

D.1.3 NOx Emissions - Natural gas usage [326 IAC 2-8-4]

- (a) Pursuant to 326 IAC 2-8-4(1), the following limit shall apply:
The input of natural gas to the aggregate dryer burner shall not exceed 1032.08 million cubic feet (MMCF) per twelve (12) consecutive month period, rolled on a monthly basis.
- (b) During the first twelve (12) months of operation under this permit, the input of natural gas shall be limited such that the total million cubic feet (MMCF) burned divided by the accumulated months of operation shall not exceed 86.00 MMCF per month. Therefore, the requirements of 326 IAC 2-7 will not apply.
- (c) These limits are equivalent to 99 tons per 12 consecutive month period. Compliance with this condition shall make the requirements of 326 IAC 2-7 not applicable.

D.1.4 Miscellaneous Operations: Asphalt Paving [326 IAC 8-5-2]

Cutback asphalt or asphalt emulsion shall not be used without the prior approval from The Office of Air Management or The Environmental Resources Management Division.

D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.1.6 Testing Requirements [326 IAC 2-8-5(1)]

During the period between 18 and 24 months after issuance of this permit, the Permittee shall perform PM and PM-10 testing utilizing Methods 5 or 17 (40 CFR 60, Appendix A) for PM and Methods 201 or 201A and 202 (40 CFR 51, Appendix M) for PM-10, or other methods as approved by the Commissioner to document compliance with Condition D.1.1. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensable PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.7 NOx Emissions - Testing Requirements

Compliance with the fuel usage limitation in Condition D.1.3 shall be demonstrated within 15 days of the end of each month based on the fuel usage for the most recent 12 consecutive month period.

D.1.8 Particulate Matter (PM)

The baghouse for PM control shall be in operation at all times when the aggregate dryer is in operation and exhausting to the outside atmosphere.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.9 Visible Emissions Notations

- (a) Daily visible emission notations of the aggregate dryer baghouse stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.1.10 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the aggregate dryer, at least once daily when the aggregate dryer is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.1.11 Broken Bag or Failure Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.
- (b) Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.12 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.3, the Permittee shall maintain records in accordance with (1) through (3) below.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual natural gas usage per month since last compliance determination period and equivalent NOx emissions;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period.

If the fuel supplier certification is used to demonstrate compliance, the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications.
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (b) To document compliance with Condition D.1.7, the Permittee shall maintain records of daily visible emission notations of the aggregate dryer baghouse stack exhaust.
- (c) To document compliance with Condition D.1.8, the Permittee shall maintain the following records as specifically related to the baghouse:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.

- (2) Documentation of all response steps implemented, per event .
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.13 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1 and D.1.3 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the calendar quarter being reported. The report submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION 2.1 INSIGNIFICANT ACTIVITIES

Facility Description [326 IAC 2-7-5(15)]

- (1) Aggregate Stock Piles and Handling, identified as 01(01), using no equipment as control, and not exhausting to a stack.
- (2) Receiving Bins/Screening/Conveying, identified as 01(04), using no equipment as control, and not exhausting to a stack.
- (3) Product Storage Bins, identified as 02(02), using no equipment as control, and not exhausting to a stack.
- (4) Truck Loadout, identified as 02(03), using no equipment as control, and not exhausting to a stack.
- (5) Asphalt Tank and Heater, identified as 02(04), using no equipment as control, and not exhausting to a stack.
- (6) Haulroad and Yard Area, identified as 01(05), using no equipment as control, and not exhausting to a stack.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from emission units # 01(01), 01(04), 02(02), 02(03), 02(04), 01(05) shall not exceed allowable PM emission rate based on the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission of 0.55 pounds per hour; and
P = process weight rate of less than 100 pounds/hour

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Hanson Aggregates, Inc.
Source Address: 4605 South Harding Street, Indianapolis, Indiana 46217
Mailing Address: 4605 South Harding Street, Indianapolis, Indiana 46217
FESOP No.: F097

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

Affidavit (specify) _____

9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Hanson Aggregates, Inc.
Source Address: 4605 South Harding Street, Indianapolis, Indiana 46217
Mailing Address: 4605 South Harding Street, Indianapolis, Indiana 46217
FESOP No.: F097

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2	
9 1.	This is an emergency as defined in 326 IAC 2-7-1(12) CThe Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
9 2.	This is a deviation, reportable per 326 IAC 2-7-5(3)(c) CThe Permittee must submit notice in writing within ten (10) calendar days

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency/Deviation:
Describe the cause of the Emergency/Deviation:

A certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1) is not required for this report.

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency/deviation:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1) is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Hanson Aggregates, Inc.
Source Address: 4605 South Harding Street, Indianapolis, Indiana 46217
Mailing Address: 4605 South Harding Street, Indianapolis, Indiana 46217
FESOP No.: F097
Facility: Aggregate dryer
Parameter: NOx Emissions
Limit: The input of natural gas to the aggregate dryer burner shall not exceed 1,032.08 million cubic feet (MMCF) per twelve (12) consecutive month period.

YEAR: _____

Month	Natural Gas and equivalent usage (MMCF)	Natural Gas and equivalent usage (MMCF)	Natural Gas and equivalent usage (MMCF/yr)
	This Month	Previous 11 Months	12 Month Total

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

A certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1) is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY COMPLIANCE MONITORING REPORT**

Source Name: Hanson Aggregates, Inc.
Source Address: 4605 South Harding Street, Indianapolis, Indiana 46217
Mailing Address: 4605 South Harding Street, Indianapolis, Indiana 46217
FESOP No.: F097

Months: _____ **to** _____ **Year:** _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (eg. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

A certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1) is not required for this report.

Attach a signed certification to complete this report

**Indiana Department of Environmental Management
Office of Air Management
and
Indianapolis Environmental Resources Management Division**

First Addendum to the
Technical Support Document for a FESOP

Source Name: Hanson Aggregates, Inc.
Source Location: 4506 S. Harding Street
County: Marion
SIC Code: 2951
Operation Permit No.: F097-12083-05160
Permit Reviewer: Kevin Leone

On May 11th, 2000, the Office of Air Management (OAM) and Environmental Resources Management Division (ERMD) had a notice published in the Indianapolis Star, Indianapolis, Indiana, stating that Circle City Asphalt had applied for a FESOP to operate an asphalt production operation. The notice also stated that OAM proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On August 14th, 2000, Hanson Aggregates, Inc. submitted a request to change the name of Circle City Asphalt to Hanson Aggregates, Inc. The name change is being closed and processed under this addendum to the technical support document. The summary of changes is as follows:

The following changes were performed as the result of a request by this company to change its name to Hanson Aggregates, Inc.

Change No. 1.: The title page of the FESOP has been changed to read:
Hanson Aggregates, Inc.

Change No. 2.: The company identified in the headers on each page of the FESOP has been changed to read:
Hanson Aggregates, Inc.

Change No. 3.: The company identified on the reporting forms of the FESOP has been changed to read:
Hanson Aggregates, Inc.

Change No. 4: Page 27 of 36, Section D.1.2 is revised as followed:

D.1.2 Particulate Matter 10 Microns (PM-10) [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, particulate matter 10 microns emissions from the aggregate mixing and drying operation shall not exceed 100 tons per year, or **(or 5.54 lb/hr, which relates to the actual outlet grain loading)** including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

On August 3, 2000, the OAM determined all permits shall have language changes to Condition B.12. The summary of changes is as follows:

As part of the U.S. EPA's 1997 Compliance Assurance Monitoring rule making (Federal Register Volume 62, page 54900-54947, Wednesday, October 22, 1997), the language in 40 CFR Part 70.6(c)(5)(iii)(B) was changed from "continuous or intermittent compliance" to "based on continuous or intermittent data". The U.S. District Court of Appeals, Washington D.C. ruled against EPA's language,

saying that the Clean Air Act wording on continuous or intermittent compliance had to be used. (NRDC vs. EPA, #97-1727). This change has been made to this permit to be consistent with state and federal law.

- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAM, and ERMD may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

This concludes all changes to the permit and related documents.

Environmental Resources Management Division Air Quality Management Section

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP)

Source Background And Description

Source Name: Hanson Aggregates
Source Location: 4605 South Harding Street
County: Marion
SIC Code: 2951
Operation Permit No.: F097-12083-05160
Permit Reviewer: Kevin Leone

The Environmental Resources Management Division (ERMD), Air Quality Management Section has reviewed a Federally Enforceable State Operating Permit (FESOP) application from Circle City Asphalt relating to the operation of production of asphalt.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (1) one (1) stationary hot asphalt drum mixer and aggregate dryer ,unit ID: 02 (01), with a maximum capacity of 350 tons per hour, equipped with one (1) natural gas-fired burner, controlled by one (1) baghouse for particulate matter (PM) emissions, and exhausting through one (1) stack (Stack ID: 01), installed in 1996.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

Emission Units and Pollution Control Equipment Under Enhanced New Source Review (ENSR)

There are no new facilities to be reviewed under the ENSR process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(20):

- (1) Aggregate Stock Piles and Handling, identified as 01(01), using no equipment as control, and not exhausting to a stack.
- (2) Receiving Bins/Screening/Conveying, identified as 01(04), using no equipment as control, and not exhausting to a stack.
- (3) Product Storage Bins, identified as 02(02), using no equipment as control, and not exhausting to a stack.
- (4) Truck Loadout, identified as 02(03), using no equipment as control, and not

exhausting to a stack.

- (5) Asphalt Tank and Heater, identified as 02(04), using no equipment as control, and not exhausting to a stack.
- (6) Haulroad and Yard Area, identified as 01(05), using no equipment as control, and not exhausting to a stack.

Existing Approvals

This source has been operating under the following approvals:

- (1) CP 950162-01, issued on October 25th, 1995

All conditions from previous approvals were incorporated into this FESOP

Enforcement Issue

The source has the following enforcement action pending:

- (1) Late submittal for a part 70 air pollution permit application

Recommendation

The staff recommends to the Commissioner that the FESOP be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP application for the purposes of this review was received on April 22nd, 1996.

Emissions Calculations

See Appendix A: Emissions Calculations for detailed calculations

Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as “emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility.”

Pollutant	Potential Emissions (tons/year)
PM	29,246.22
PM-10	6,789.97
SO ₂	5.41
VOC	21.03

CO	134.42
NO _x	154.99

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

See attached spreadsheets for detailed calculations

HAP	Potential Emissions (tons/year)
Acetaldehyde	0.98
Benzene	0.54
Ethylbenzene	5.06
Formaldehyde	1.32
Quinone	0.41
Toluene	2.76
POM	0.19
Xylene	6.59
TOTAL	17.85

See attached spreadsheets for detailed calculations

- (a) The potential emissions (as defined in the Indiana Rule) of PM-10, CO and NO_x are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) This source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict its PTE to below the Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP), pursuant to 326 IAC 2-8.
- (c) Fugitive Emissions
Since this type of operation is one of the 28 listed source categories under 326 IAC 2-2 because there is an applicable New Source Performance Standard that was in effect on August 7, 1980, the fugitive particulate matter emissions are counted toward determination Prevention of Significant Deterioration (PSD) and Emission Offset applicabilities.

Limited Potential To Emit

- (a) The source has accepted a federally enforceable limit on potential to emit PM-10 of less than 100 tons per year. Source wide PM-10 emissions are controlled at 65.17 tons per year, consisting of:
 - (i) 24.28 tons per year for the significant activities (by using a baghouse to control PM-10 emissions from the aggregate dryer; and
 - (ii) 40.9 tons per year from the insignificant activities.
- (b) The source has accepted a federally enforceable limit on potential to emit oxides of Nitrogen (NO_x) of less than 100 tons per year, consisting of:

- (i) 98.12 tons per year for the significant activities; and
 - (ii) 0.88 tons per year for the insignificant activities.
- (c) The table below summarizes the total limited potential to emit of the significant and insignificant emission units.

	Limited Potential to Emit (tons/year)						
Process/ facility	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Aggregate dryer	58.1	58.1	0.3	2.84	43.05	98.05	17.85
Insignificant Activities*	115.67	40.9	0.1	0.05	0.74	0.88	0.1
Total Emissions	158.43	99.0	0.4	2.89	43.79	98.93	17.95

* Insignificant activities include: hot oil heater, bin loading and conveying, screening and drops, unpaved roads, storage piles.

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-10	attainment
SO ₂	maintenance
NO ₂	attainment
Ozone	maintenance
CO	maintenance
Lead	maintenance

- (a) Volatile organic compounds (VOC) and oxides of nitrogen are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) This asphalt plant is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I. Pursuant to NSPS, the following apply to this facility:

- (1) Performance tests are required as specified in this Subpart and as outlined in Part 60.8.
 - (2) On or after the date on which the performance tests are completed, no owner or operator subject to the provisions of Subpart I shall discharge or cause the discharge into the atmosphere from any affected facility any gases which:
 - (i) Contain particulate matter in excess of 0.04 gr/dscf
 - (ii) Exhibit 20 percent opacity, or greater
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has PTE of more than 10 tons per year of Oxides of Nitrogen (NO_x). Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15th of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 2-8-4 (FESOP)

The following operational limitations are necessary in order to limit emissions of criteria pollutants below 100 tons per year to comply with 326 IAC 2-8-4 (FESOP) and to avoid 326 IAC 2-7 (Part 70).

- (1) The consumption of natural gas in the 130.0 million Btu per hour aggregate dryer burner must be limited such that source-wide emissions of NO_x are less than 100.0 tons per year (see Appendix A, for detailed fuel usage limit calculations). The total fuel input to the 130.0 mmBtu per hour burner for the aggregate dryer shall be limited as follows to ensure compliance with 326 IAC 2-8 (FESOP):
 - (a) The input of natural gas and natural gas equivalents to the aggregate dryer burner shall not exceed 1032.08 million cubic feet (MMCF) per twelve (12) consecutive month period. This limit, when combined with NO_x emissions from other operations, shall limit the source-wide potential to emit NO_x to less than 100.0 tons per year.

The total amount of natural gas shall not exceed the limits specified. The total for each month shall not exceed the difference between the annual limit minus the sum of actual usage from the previous eleven (11) months. Compliance is based on the total fuel used during the previous 12 months.

- (2) PM-10 emissions from the aggregate dryer shall be limited to 13.26 pounds per hour. The source will comply with the PM-10 emission limit by utilizing a baghouse for controlling PM-10 emissions from the aggregate dryer to 4.76 pounds per hour. This limit, when combined with PM-10 emissions from other operations, shall limit the source-wide potential to emit PM-10 to less than 100.0 tons per year. Therefore, the requirements of 326 IAC 2-7 do not apply.

326 IAC 5-1-2 (Visible Emission Limitations)

This rule requires the visible emissions to meet the following:

- (a) visible emissions shall not exceed an average of 30% opacity in 24 consecutive readings,
- (b) visible emissions shall not exceed 60% opacity for more than a cumulative total of 15 minutes (60 readings) in a 6 hour period.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

This rule requires the source not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

326 IAC 6-5 (Fugitive Particulate Matter Emissions Limitations)

326 IAC 6-5(b) (Fugitive Particulate Matter Emissions Limitations) requires the source to submit a fugitive particulate matter emissions control plan. In accordance, the source has submitted a control plan on October 29th, 1997.

State Rule Applicability - Individual Facilities

326 IAC 6-1-2 (Particulate Emissions Limitations)

The particulate matter emissions from the aggregate mixing and drying operation are subject to the requirements of 326 IAC 6-1-2 (Particulate Emissions Limitations) because this source is located in one of the counties listed in 326 IAC 6-1-7 and is not a specifically listed source.

Particulate Matter (PM) [326 IAC 12] [326 IAC 6-1-2(a)][40 CFR 60.990, Subpart I]

Pursuant to 326 IAC 6-1-2(a) and the New Source Performance Standards, 326 IAC 12 (40 CFR 60.90 to 60.93, Subpart I):

- (a) particulate matter emissions from the asphalt plant shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf). Compliance with 326 IAC 6-1-2(a) will satisfy 326 IAC 12 and 40 CFR 60.90 to 60.93, Subpart I, and
- (b) the visible emissions from the plant shall not exceed 20 percent opacity.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

- (a) The one (1) insignificant hot oil heater is not subject to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitation), because it has a potential to emit less than 25 tons per year and 10 pounds per hour sulfur dioxides. Therefore, this rule does not apply to this unit.

326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving)

326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), does not apply because the source does not have the use of cutback asphalt or asphalt emulsion. Cutback asphalt or asphalt emulsion shall not be used without the prior approval from The Office of Air Management or The Environmental Resources Management Division.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The conveying, material transfer points, screening, unpaved roads, storage piles, and mixing and drying operations have applicable compliance monitoring conditions as specified below:
 - (a) Daily visible emissions notations of the conveying, material transfer points, screening, unpaved roads, storage piles, and mixing and drying operations shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.
 - (b) The Permittee shall record the total static pressure drop across the baghouse controlling the mixing and drying, at least once daily when the aggregate dryer is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 to 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

These monitoring conditions are necessary because the baghouse for the mixing and drying process must operate properly to ensure compliance with 326 IAC 12, (40 CFR

Part 60.90, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities" and 326 IAC 2-8 (FESOP).

2. The consumption of natural gas in the 130.0 million Btu per hour aggregate dryer burner must be limited such that source-wide emissions of NO_x are less than 100 tons per year.
 - (a) The input of natural gas and natural gas equivalents to the aggregate dryer burner shall not exceed 1032.08 million cubic feet (MMCF) per twelve (12) consecutive month period.
 - (c) Quarterly reports shall be submitted to OAM Compliance Section. These reports shall include:
 - (i) the monthly usage of natural gas and equivalents in MMCF for NO_x emissions

These monitoring conditions are necessary because NO_x emissions from the combustion natural gas must be limited to below the Title V major source level of 100 tons per year. The source must demonstrate compliance with the FESOP limit and also with limits established in 326 IAC 2-8-4.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) FESOP Application Form GSD-08.

- (a) This source will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Clean Air Act Amendments.
- (b) See attached calculations for detailed air toxic calculations (Appendix A).

Conclusion

The operation of this hot batch mix asphalt plant shall be subject to the conditions of the attached proposed **FESOP No. F097-12083-05160**.

Appendix A

Appendix A: FESOP Emission Calculations

Company Name: Hanson Aggregates, Inc.
 Plant Location: 4506 South Harding Street
 County: Marion
 FESOP No.: F
 Date Received: April 2nd 1996
 Permit Reviewer: Kevin Leone

I. Potential Emissions

A. Source emissions before controls

** hot oil heater**

The following calculations determine the amount of emissions created by natural gas combustion, from hot oil heating, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1, 1.4-2, and 1.4-3(HAPs).

Criteria Pollutant: $\frac{2.00 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr}}{1000 \text{ Btu/cf} \times 2,000 \text{ lb/ton}} \times \text{Ef (lb/MMcf)} = (\text{ton/yr})$

P M:	7.60 lb/MMcf =	0.07 ton/yr
P M-10:	7.60 lb/MMcf =	0.07 ton/yr
S O 2:	0.6 lb/MMcf =	0.01 ton/yr
N O x:	100.0 lb/MMcf =	0.88 ton/yr
V O C:	5.5 lb/MMcf =	0.05 ton/yr
C O:	84.0 lb/MMcf =	0.74 ton/yr

** aggregate dryer burner**

The following calculations determine the amount of emissions created by natural gas combustion, from the aggregate dryer burner, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1, 1.4-2, and 1.4-3(HAPs).

Criteria Pollutant: $\frac{130 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr}}{1000 \text{ Btu/cf} \times 2,000 \text{ lb/ton}} \times \text{Ef (lb/MMcf)} = (\text{ton/yr})$

P M:	7.60 lb/MMcf =	4.33 ton/yr
P M-10:	7.60 lb/MMcf =	4.33 ton/yr
S O 2:	0.6 lb/MMcf =	0.34 ton/yr
N O x*:	190.0 lb/MMcf =	108.19 ton/yr
V O C:	5.5 lb/MMcf =	3.13 ton/yr
C O:	84.0 lb/MMcf =	47.83 ton/yr

* Post NSPS Ef was used, because heat input capacity is between 100 and 250 MMBtu/hr and construction commenced after June 19, 1984.

** Aggregate Dryer Burner**

The following calculations determine the amount of worst case emissions created by aggregate drying before controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Tables 11.1-5, 11.1-8, and 11.1-9(HAPs) for a natural gas and fuel oil-fired Drum mix dryer:

Natural Gas Fired:

Pollutant:	Ef	lb/ton x	350	ton/hr x	8,760 hr/yr
			2,000	lb/ton	

Criteria Pollutant:

P M:	19	lb/ton =	29,127.00 ton/yr
P M-10:	4.4	lb/ton =	6,745.20 ton/yr
VOC*:	0.011647	lb/ton =	17.85 ton/yr
CO:	0.056	lb/ton =	85.85 ton/yr
NOx:	0.03	lb/ton =	45.99 ton/yr
SO2:	0.0033	lb/ton =	5.06 ton/yr

** conveying / handling **

PM-10 Emissions Per Operation:

$\frac{108 \text{ ton/hr} \times 8,760 \text{ hrs/yr} \times \text{Ef (lb/ton of material)} \times \text{Number of Similar Operations}}{2,000 \text{ lb/ton}} = (\text{ton/yr})$

Operation

Appendix A

Truck Loading:	1 operation(s)	1.0E-04 lb/ton of material =	0.05 ton/yr
Conveyor Transfers:	5 operation(s)	4.8E-05 lb/ton of material =	0.11 ton/yr
Screening:	1 operation(s)	8.4E-04 lb/ton of material =	0.40 ton/yr
Silos	3 operation(s)	1.0E-04 lb/ton of material =	0.14 ton/yr
Total PM 10 Emissions:			0.70 ton/yr
Total PM Emissions:			1.47 ton/yr

** unpaved roads **

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 13.2.2.2.

Vehicle Traffic

$$\begin{aligned}
 &12.5 \text{ trip/hr} \times \\
 &0.25 \text{ mile/trip} \times \\
 &2 \text{ (round trip) } \times \\
 &8,760 \text{ hr/yr} = 54750 \text{ miles per year}
 \end{aligned}$$

$$\begin{aligned}
 E_f &= k \cdot 5.9 \cdot (s/12) \cdot (S/30) \cdot (W/3)^{0.7} \cdot (w/4)^{0.5} \cdot ((365-p)/365) \\
 &= 4.10 \text{ lb/mile} \\
 \text{where } k &= 0.8 \text{ (particle size multiplier)} \\
 s &= 4.8 \% \text{ silt content of unpaved roads} \\
 p &= 125 \text{ days of rain greater than or equal to 0.01 inches} \\
 S &= 10 \text{ miles/hr vehicle speed} \\
 W &= 32.50 \text{ tons average vehicle weight} \\
 w &= 14 \text{ wheels}
 \end{aligned}$$

$$\frac{4.10 \text{ lb/mi} \times 54750 \text{ mi/yr}}{2000 \text{ lb/ton}} = 112.34 \text{ tons/yr}$$

$$\text{P M-10: } 35\% \text{ of PM} = 39.32 \text{ tons/yr}$$

** storage **

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3.

$$\text{Sample Calculation: } E_f = 1.7 \cdot (s/1.5) \cdot (365-p)/235 \cdot (f/15)$$

$$\begin{aligned}
 E_f &= 5.55 \text{ lb/acre/day} \\
 \text{where } s &= 4.8 \% \text{ silt} \\
 p &= 125 \text{ days of rain greater than or equal to 0.01 inches} \\
 f &= 15 \% \text{ of wind greater than or equal to 12 mph}
 \end{aligned}$$

$$E_p (\text{storage}) = \frac{E_f \cdot (\text{Pile Size in acres}) \cdot (365 \text{ day/yr})}{(2,000 \text{ lb/ton})}$$

$$\text{PM} = 1.01 \text{ tons/yr} \quad \text{P M-10: } 35\% \text{ of PM} = 0.35 \text{ tons/yr}$$

** summary of source emissions before controls **

Criteria Pollutants:

P M:	29,246.22 ton/yr
P M-10:	6,789.97 ton/yr
S O 2:	5.41 ton/yr
N O x:	154.99 ton/yr
V O C:	21.03 ton/yr
C O:	134.42 ton/yr

** Aggregate dryer fuel usage limitations **

Primary Fuel Usage Limitation - Natural Gas

In order to qualify for the FESOP program, this facility must limit NOx emissions from natural gas combustion to 99 tons per year. The NOx emissions from the aggregate dryer must be limited to (99.0 - 0.88 tons/yr from hot oil heater) = 98.12 tons per year.

Appendix A

The following calculations determine the amount of NOx emissions created by natural gas combustion with a fuel usage of 1,032.08 MMcf/year in order to limit potential NOx emissions to 99.0 tons/yr.

Fuel Oil: Natural Gas

$$\frac{98.12 \text{ tons NOx/year limited}}{108.19 \text{ tons NOx/year potential}} * 1138.00 \frac{\text{MMCF}}{\text{year potential}} = 1032.08 \frac{\text{MMCF}}{\text{year limited}}$$

$$\text{Natural Gas: } \frac{1032.08 \text{ MMcf/year} * \text{Ef (lb/MMcf)} = (\text{ton/yr})}{2,000 \text{ lb/ton}}$$

Aggregate dryer Emissions Summary after Fuel Usage Limitations

P M:	7.60 lb/MMcf =	27.67 ton/yr
P M-10:	7.60 lb/MMcf =	24.28 ton/yr
S O 2:	0.6 lb/MMcf =	0.30 ton/yr
N O x:	190.0 lb/MMcf =	98.05 ton/yr
V O C:	5.5 lb/MMcf =	2.84 ton/yr
C O:	84.0 lb/MMcf =	43.05 ton/yr

** source emissions after controls **

In order to qualify for the FESOP program, this facility must limit PM-10, VOC, NOx, SO2, and CO emissions to 99 tons per year.

hot oil burner		nonfugitive	
P M:	0.07 ton/yr x	100.00% emitted after controls =	0.07 ton/yr
P M-10:	0.07 ton/yr x	100.00% emitted after controls =	0.07 ton/yr

aggregate drying:		nonfugitive	
P M:	29,127 ton/yr x	0.10% emitted after controls =	27.67 ton/yr
P M-10:	6,745 ton/yr x	0.36% emitted after controls =	24.28 ton/yr

bin loading & conveying:		fugitive	
P M:	5.39 ton/yr x	50% emitted after controls =	2.70 ton/yr
P M-10:	2.57 ton/yr x	50% emitted after controls =	1.29 ton/yr

screening & batch drops		nonfugitive	
P M:	1.10 ton/yr x	4.29% emitted after controls =	0.05 ton/yr
P M-10:	0.90 ton/yr x	4.29% emitted after controls =	0.04 ton/yr

unpaved roads:		fugitive	
P M:	224.67 ton/yr x	50% emitted after controls =	112.34 ton/yr
P M-10:	78.64 ton/yr x	50% emitted after controls =	39.32 ton/yr

storage piles:		fugitive	
P M:	1.01 ton/yr x	50% emitted after controls =	0.51 ton/yr
P M-10:	0.35 ton/yr x	50% emitted after controls =	0.18 ton/yr

** summary of source emissions after limits/controls **

P M:	7.6 lb/1000 gal :	143.33 ton/yr
P M-10:	7.6 lb/MMcf :	65.17 ton/yr
S O 2:	71.0 lb/1000 gal :	0.31 ton/yr
N O x:	190 lb/MMcf :	98.05 ton/yr
V O C:	5.5 lb/MMcf :	2.84 ton/yr
C O:	84 lb/MMcf :	44.08 ton/yr

** miscellaneous **

326 IAC 6-1-2 Compliance Calculations:

The following calculations determine compliance with 326 IAC 6-1-2 limit of 0.03 grain per dry standard cubic foot.

$$\text{Conversion acfm to dscf} = ((56000 \text{ acfm}) * (460 + 68 \text{ deg F}) * (1.0 - 0.3)) / (460 + 230 \text{ deg F}) = 29,996 \text{ dscfm}$$

Equivalency of 0.03gr/dscf at an airflow of 22797:

$$((29,996 \text{ dscf/min}) * (0.04 \text{ gr/dscf}) * (60 \text{ min/hr})) / (7000 \text{ gr/lb}) = 10.28 \text{ lbs/hr}$$

$$\text{ton/yr equivalency: } ((10.28 \text{ lb/hr}) * (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})) = 45.03 \text{ TPY}$$

Appendix A

PM emissions from the aggregate dryer are controlled to 24.28 tons/yr < 45.03 tons/yr (Will comply)

PM-10 Emission Limit:

(99.0 tons PM-10/yr - 40.9 tons PM-10/yr from other sources)
 = 58.1 t PM-10/yr = 13.3 lbs/hr from aggregate dryer
 PM-10 emissions from the aggregate dryer are controlled to 24.28 tons/yr < 58.1 tons/yr (Will comply)

40 CFR Part 60.90, Subpart I (Standards of Performance for Hot Mix Asphalt Plants) Compliance Calculations:

The following calculations determine compliance with NSPS, which limits stack emissions from asphalt plants to 0.04 gr/dscf:

$$\frac{27.67 \text{ ton/yr}^*}{525,600 \text{ min/yr}^*} \times \frac{2000 \text{ lb/ton}^*}{22,797 \text{ dscf/min}} \times 7000 \text{ gr/lb} = 0.032 \text{ gr/dscf} \quad (\text{will comply})$$

Allowable particulate emissions under NSPS equate to 45.03 tons per year, or 10.28 lbs/hr.

Note:

$$\text{SCFM} = \frac{42,559 \text{ acfm} \times (460 + 68) \times (1.0 - 0.3)}{22,797 \text{ scfm} \times (460 + 230)}$$

Hazardous Air Pollutants (HAPs)

** HAP's - aggregate drying **

The following calculations determine the amount of HAP emissions created by aggregate drying before & after controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Table 11.1-9 for a batch mix dryer which can be fired with either fuel oil or natural gas. The HAP emission factors represent the worst case emissions (natural gas combustion).

$$\text{Pollutant: } \frac{\text{Ef} \text{ lb/ton} \times 350 \text{ ton/hr} \times 8760 \text{ hr/yr}}{2000 \text{ lb/ton}}$$

Hazardous Air Pollutants (HAPs):

			Potential To Emit	Limited Emissions
Acetaldehyde:	6.40E-04	lb/ton =	0.98 ton/yr	0.98 ton/yr
Benzene:	3.50E-04	lb/ton =	0.54 ton/yr	0.54 ton/yr
Ethylbenzene:	3.30E-03	lb/ton =	5.06 ton/yr	5.06 ton/yr
*Formaldehyde:	8.60E-04	lb/ton =	1.32 ton/yr	1.32 ton/yr
Quinone:	2.70E-04	lb/ton =	0.41 ton/yr	0.41 ton/yr
Toluene:	1.80E-03	lb/ton =	2.76 ton/yr	2.76 ton/yr
**Total Polycyclic Organic Matter (POM):	1.270E-04	lb/ton =	0.19 ton/yr	0.19 ton/yr
Xylene:	4.30E-03	lb/ton =	6.59 ton/yr	6.59 ton/yr
Total HAPs =			17.85 ton/yr	17.85 ton/yr

* The emission factor for formaldehyde from fuel oil firing (0.0032 lb/ton) exceeds the formaldehyde emission factor from natural gas firing (0.00086 lb/ton). Consequently, the worst case emissions for formaldehyde are 2.24 ton/yr. However, since the VOC emissions from natural gas combustion exceed the VOC emissions from fuel oil firing, the natural gas emission factor was used to avoid overestimating total VOC emissions.

** total POM includes 2-Methylnaphthalene, Acenaphthalene, Acenaphthalene, Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthrene, Benzo(k)fluoranthrene, Fluoranthene, Fluorene, Naphthalene, Phenanthrene, and Pyrene.

** summary of source HAP emissions potential to emit **

Acetaldehyde:	0.980 ton/yr
Benzene:	0.540 ton/yr
Ethylbenzene:	5.060 ton/yr
Formaldehyde:	1.320 ton/yr
Quinone:	0.410 ton/yr
Toluene:	2.760 ton/yr
Total POM:	0.190 ton/yr
Xylene:	6.590 ton/yr
Total:	17.85

** summary of source HAP limited emissions **

Acetaldehyde:	0.980 ton/yr
Benzene:	0.540 ton/yr
Ethylbenzene:	5.060 ton/yr
Formaldehyde:	1.320 ton/yr
Quinone:	0.410 ton/yr
Toluene:	2.760 ton/yr
Total Polycyclic Organic Matter:	0.190 ton/yr
Xylene:	6.590 ton/yr
Total:	17.85